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15 May 1991

Scientific Officer
Office of Naval Research
Attn: Dr. Richard Brandt
Ref: Contract N00014-91-C-0071
800 North Quincy Street
Arlington, Virginia 22217-5000

Re: Progress Report No. 1 for Navy SBIR on
"STM-based Hydrophone Sensors"

Report

The following progress report covers the period of 1 March 1991 through 15 May 1991. The following activities are reported:

- Detailed PERT charts have been made up, which identify project tasks and subtasks, the responsible individuals, and their monthly time allocations. Subcontracts have also been prepared.
- Preliminary hydrophone transducer packages have been designed, incorporating tunneling transducer elements. Single-chip, integrated (sensor plus power electronics plus multiplexing) designs are presently under consideration.
- Calculations of membrane deflections and frequency responses versus membrane dimensions, consistent with tunneling sensitivities, are presently underway.
- Electronic interfaces and power requirements are being investigated.
- Consultant agreements, and tasks, have been initiated.

Sincerely,



Fraser Smith, P.I.

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